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TITLE: COLLISION FORM DISCRIMINATING DEVICE AND COLLISION FORM
DISCRIMINATING METHOD

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INVENTOR-INFORMATION:

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ABSTRACT:

PROBLEM TO BE SOLVED: To quickly and more accurately decide whether a collision form of a vehicle is a head-on collision or not.

SOLUTION: When the collision form of the vehicle is the head-on collision, normalization of a locus for time of a time integrated value of deceleration detected by a floor sensor mounted in the vicinity of a center console of a vehicle gives the normalized locus accurately approximated to a quadratic curve. When the collision form of the vehicle is a symmetric collision except the head-on collision, the locus normalized in the same way is remarkably deviated from the quadratic curve. By using the result, whether the collision form is the head-on collision or not is discriminated. Because the time integrated value of deceleration required for the discrimination is required till an initial stage of the collision, the discrimination can be performed at the initial stage of the collision.

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